

SUPPLEMENTARY MATERIAL

Figure S1: Design of the sampling strategy

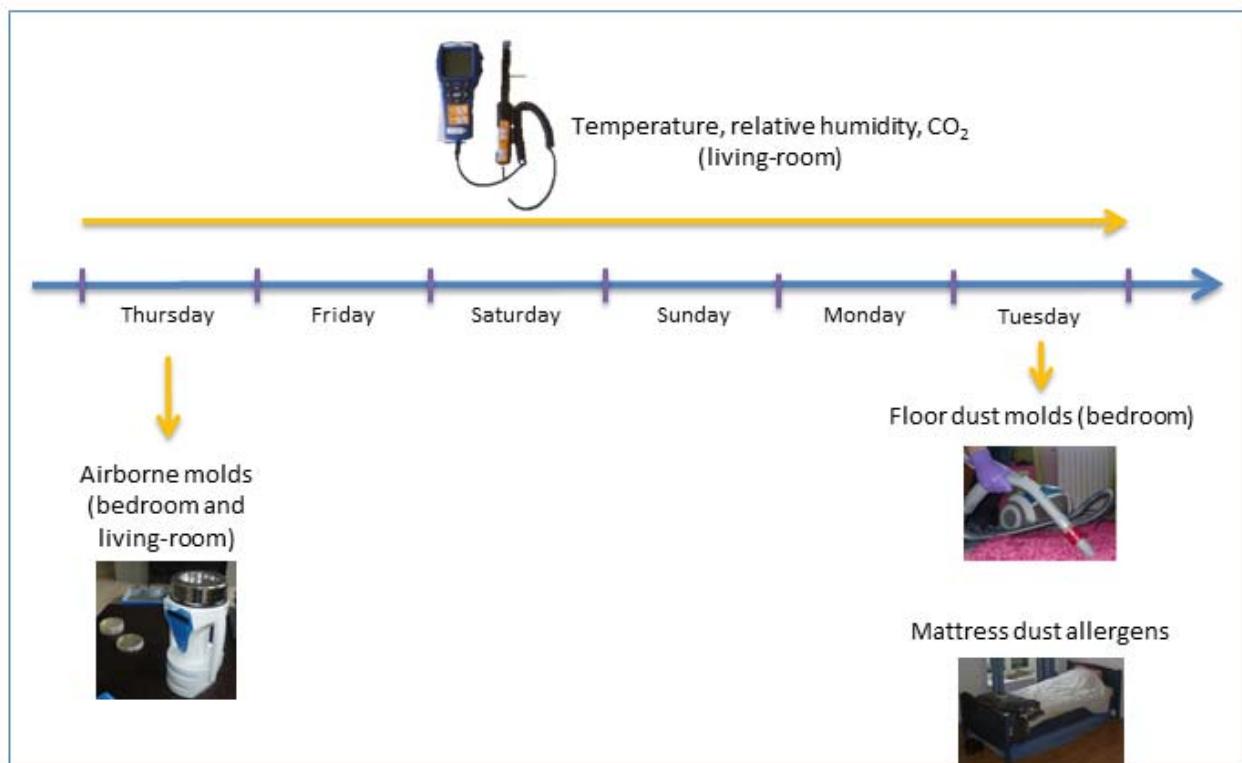


Table S1: Linear multivariate analysis for main determinants of airborne mold concentrations in the living-room (warm season). The numbers correspond to the coefficients of each determinant in the multivariate linear model for the airborne concentrations of molds, the symbols indicating the significance of these coefficients (# : p<0,1, *: p<0,05).

	Fungi air concentration				
	<i>Alternaria</i>	<i>Aspergillus</i>	<i>Cladosporium</i>	<i>Penicillium</i>	Total molds
(Intercept)	0,000	8,740	#	2,369	1,990 *
Rural dwelling (vs urban)					-0,438
Building date (vs before 1948)					
<i>built 1949-1974</i>				-0,475	#
<i>built 1975-1989</i>				-0,300	
<i>built 1990-2000</i>				-0,808	*
<i>built 2000-2005</i>				-0,360	#
Aeration duration in general					
<i><30 min/day</i>				-0,132	-0,011
<i>>30 min/day</i>				0,087	0,018
Aeration frequency in general					
<i>1/week to 4/week</i>	0,133			0,264	0,042
<i>1/day</i>	0,224			0,450	0,237
<i>>1/day</i>	0,248			0,916 *	0,138
Aeration during sampling period					
<i>< 30 min/day</i>			-0,881	*	
<i>> 30 min/day</i>			-0,904	*	
Window opened before sampling (bedroom)			-0,505		
Window opened before sampling (living-room)				-0,164	0,135
Presence of cats (vs no cats)				-0,244	#
Presence of a sofa (vs no)				0,251	
Occasional smoking in the dwelling	0,566 *				
5-days median T°		-0,088	0,164	*	0,065 *
5-days median RH			0,031	*	-0,006 0,019 *
5-days median CO2		-1,941	-1,737	*	-0,705
adjusted R ²	0,07	0,09	0,56	0,08	0,38
p-value	0,092	0,079	0,000	0,091	0,000

Table S2: Linear multivariate analysis for main determinants of airborne mold concentrations in the bedroom (cold season). The numbers correspond to the coefficients of each determinant in the multivariate linear model for the airborne concentrations of molds, the symbols indicating the significance of these coefficients (# : p<0,1, *: p<0,05).

	Fungi air concentration				Total molds
	<i>Alternaria</i>	<i>Aspergillus</i>	<i>Cladosporium</i>	<i>Penicillium</i>	
(Intercept)	0,026	0,312 #	-3,192 *	2,159 *	1,648 *
Building date (vs before 1948)					
<i>built 1949-1974</i>	0,044		-0,069		
<i>built 1975-1989</i>	0,018		0,633 *		
<i>built 1990-2000</i>	0,154 *		0,450 #		
<i>built 2000-2005</i>	0,060		0,189		
Bedroom aeration duration in general					
<i>< 30 min/day</i>			0,195		
<i>> 30 min/day</i>			0,286		
Bedroom aeration frequency during the sampling period					
<i>< 30 min/day</i>			0,351		-0,019
<i>> 30 min/day</i>			0,511 #		0,059
Visible dampness signs					
<i>dwelling</i>	-0,028	0,037			
<i>living-room</i>	0,246 *	1,067 *			
Heating on during sampling				-0,507 *	-0,286 *
Presence of running mechanical ventilation	-0,086 *				-0,333 #
Wooden windows in the bedroom		0,382 *			
Presence of pets					0,041
Presence of a cat		0,293			-0,154
Regular smoking in the dwelling		0,895 *			
5-days median T°			0,113 *		
5-days median RH			0,043 *		0,018 *
5-days mean Air Exchange Rate					-0,480
adjusted R ²	0,30	0,26	0,50	0,02	0,33
p-value	0,000	0,000	0,000	0,162	0,000

Table S3: Linear multivariate analysis for main determinants of airborne mold concentrations in the bedroom (hot season). The numbers correspond to the coefficients of each determinant in the multivariate linear model for the airborne concentrations of molds, the symbols indicating the significance of these coefficients (# : p<0,1, *: p<0,05).

	Fungi air concentration				Total molds
	<i>Alternaria</i>	<i>Aspergillus</i>	<i>Cladosporium</i>	<i>Penicillium</i>	
(Intercept)	-1,151 #	0,747	3,866	1,579 *	2,666
Rural dwelling (vs urban)			-0,399		
Building date (vs before 1948)					
<i>built 1949-1974</i>				-1,004 *	
<i>built 1975-1989</i>				-0,321	
<i>built 1990-2000</i>				-0,854 *	
<i>built 2000-2005</i>				-0,345	
Vacuum cleaning frequency					
<i>1/week</i>		-0,707 *			
<i>2/week to 1/day</i>		-0,292			
Bedroom aeration duration in general					
<i>< 30 min/day</i>		-0,022	0,173		0,034
<i>> 30 min/day</i>		-0,223	0,213		0,151
Bedroom aeration frequency during the sampling period					
<i>< 30 min/day</i>	0,086		-0,100		-0,149
<i>> 30 min/day</i>	0,289 #		0,111		-0,103
Bedroom aeration frequency in general					
<i>1/day</i>		0,271	0,573 #		0,266
<i>1/week to 4/week</i>		-0,280	0,874 *		0,216
<i>>1/day</i>		0,226	0,808 #		0,370
Gypsum board ceiling in the bedroom		-0,135	-0,054	0,805 #	
Bedroom flooring material					
<i>wood</i>	-0,177				
<i>sprung</i>	0,031				
<i>vinyl</i>	-0,007				
<i>laminate</i>	0,150				
<i>textile</i>	0,318				
Window opened before sampling (bedroom)		-0,394	-0,067		
Window opened before sampling (living-room)			-0,322		
Heating on during sampling		0,558 #	-0,173		0,013
Presence of pets		0,332			
Occasional smoking in the dwelling	0,805 *				
Regular smoking in the dwelling	0,106				
5-days median RH			0,017		0,027 *

5-days median CO2			-2,160	*	-0,979	#	
5-days median T°	0,051	#	-0,001	0,171	*	0,054	#
adjusted R ²	0,27		0,22	0,62	0,05	0,45	
p-value	0,003		0,025	0,000	0,051	0,000	